

**CLAIMS**  
**EVACUATION'S**

**DEVICE**

1. ~~Machine~~ for automatically adjusting ~~means for emptying plastics vessels~~ in an orienting and aligning machine in which the ~~emptying~~ **EVACUATION'S** means are integral with a cylinder wall (4) rotating around a vertical or slanted axis and comprise a plurality of cradles or tanks (2) under which a corresponding plurality of discharge hoppers or channels (3) are placed, characterised in that it provides adjusting means for cradles and vertical channel adapted to allow handling the vessels without knowing *a priori* the vessel dimensions and the ratios among vessels with different capacity in order to be able to be completely freed from the three major dimensions, said means operating on moving portions of the emptying means one independently from the other.

**DEVICE**

2. ~~Machine~~ according to claim 1, characterised in that it provides for a slider (5) whose position can be adjusted inside the cradle (2) depending on the vessel height, said slider being able to be moved through a pneumatic cylinder equipped with a radial movement for approaching to and going away from a bracket (8) integral with the slider and an horizontal translation movement perpendicular to the radial movement.

**DEVICE**

3. ~~Machine~~ according to claim 2, characterised in that it provides for a rack locking (9) to ensure the position reached by the slider (5).

**DEVICE**

4. ~~Machine~~ according to claim 1, characterised in that it provides for a blade (10) arranged longitudinally along the external tank wall to define the tank width depending on the transverse vessel dimension (B), the blade being equipped with means for forcing it to rotate around an idle shaft (11) supported by the tank itself.

**DEVICE**

5. ~~Machine~~ according to claim 1, characterised in that it comprises two false backs, an upper one (21) and a lower one (22), each one of which can change its slant with respect to the vertical direction to define the discharge channel (3) depth.

**DEVICE**

6. ~~Machine~~ according to claim 5, characterised in that it comprises a small cable

(23) that descends down to the lower channel part and that actuates a worm screw (25) that drags and moves a small triangular block (26) inserted inside a slot (27) slanted with respect to the worm screw axis and obtained in a bracket (28) integral with the lower back (22).

5         <sup>DEVICE</sup>  
7. ~~Machine~~ according to claims 5 and 6, characterised in that it provides for a connecting rod (32) and lever (30) system kinematically connected to the upper false back (21) and to the lower false back (22) to transmit the displacement movement from one back to the other.

8. <sup>DEVICE</sup>  
~~Machine~~ according to claim 1, characterised in that it comprises a vertical wall (45) that can translate in order to widen or shorten the discharge channel (3) dimension depending on the vessel dimension (B).

9. <sup>DEVICE</sup>  
~~Machine~~ according to claims 1 and 8, characterised in that it provides a slanted wall (46) upward hinged to the vertical wall (45) which has a varying position depending on the slider (5) of the cradle (2), said slanted wall (46) being able to be  
15 subjected to a rotating-translating movement.

10. <sup>DEVICE</sup>  
~~Machine~~ according to claim 9, characterised in that it comprises a plate (48) integral with the slanted wall (46) whose function is closing the space that is created in the bottom wall when said slanted wall moves.